In the Claims:

Amend Claims 1, 6-8, 11 and 14. Cancel Claim 2. Changes in these Claims are shown with strikethrough for deleted matter and <u>underlines</u> for added matter). A complete listing of the claims with proper claim identifiers is set forth below.

1. (Currently Amended) A process for producing a β -lactam compound comprising protecting the hydroxyl group of a compound represented by general formula (1):

$$H_3C$$
 CO_2
 CO_2
 R_3
 R_2
 R_3

(wherein R_2 represents an aryl group or a heteroaryl group; and R_3 represents an alkyl group having 1 to 10 carbon atoms or a cycloalkyl group having 3 to 10 carbon atoms), to produce a compound represented by general-formula (2):

$$H_3C$$
 CH_3
 R_2
 CO_2
 CO_2
 R_3
 R_3
 R_3

(wherein R_1 represents a trimethylsilyl group or a triethylsilyl group; and R_2 and R_3 are the same as above); cyclizing the compound (2) in the presence of a strong base wherein the

strong base is a base selected from the group consisting of an alkali metal alkoxide, an alkali metal amide, and an alkali metal hydride; and subsequently allowing the cyclized compound to react with diphenylphosphoryl chloride to produce a compound represented by general formula (3):

$$H_3C$$
 OR_1
 H_3C
 OR_2
 OR_3
 OR_4
 OR_3
 OR_4
 OR_5
 OR_5

(wherein R_1 and R_3 are the same as above).

- 2. (Cancelled)
- 3. (Original) The process according to Claim 12, wherein the alkali metal alkoxide is potassium tert-butoxide.
- 4. (Original) The process according to Claim 12, wherein the alkali metal amide is sodium bis(trimethylsilyl) amide.
- 5. (Original) The process according to Claim 12, wherein the alkali metal hydride is sodium hydride.
- 6. (Currently Amended) The process according to Claim 1, wherein the compound represented by general-formula (1) is produced by allowing a compound represented by general-formula (5):

$$H_3C$$
 OH
 H
 H
 H
 R_2
 R_2
 $COOH$
 $COOH$

(wherein R_2 represents an aryl group or a heteroaryl group), to react with a compound represented by general-formula (6):

$$R_3 \longrightarrow 0 X$$
 (6)

(wherein R_3 represents an alkyl group having 1 to 10 carbon atoms or a cycloalkyl group having 3 to 10 carbon atoms; and X represents a halogen atom), in the presence of a base.

7. (Currently Amended) A process for producing a β -lactam compound represented by general formula (4):

$$H_3C$$
 OH
 H
 CH_3
 CO_2
 O
 R_3
 CO_2

(wherein R_3 represents an alkyl group having 1 to 10 carbon atoms or a cycloalkyl group having 3 to 10 carbon atoms), the process comprising deprotecting the hydroxyl moiety of the compound represented by general-formula (3) produced by the process according to any one of Claims 1 to 6.

8. (Currently Amended) A compound represented by general-formula (1):

$$H_3C$$
 H_3C
 R_2
 CO_2
 CO_2
 R_3
 R_3

(wherein R_2 represents an aryl group or a heteroaryl group; and R_3 represents an alkyl group having 1 to 10 carbon atoms or a cycloalkyl group having 3 to 10 carbon atoms).

- 9. (Original) The compound according to Claim 8, wherein R_2 is a phenyl group or a p-chlorophenyl group.
- 10. (Original) The compound according to Claim 8 or 9, wherein R_3 is a tert-butyl group.
 - 11. (Currently Amended) A compound represented by general-formula (3):

$$H_3C$$
 OR_1
 H_3C
 OP_0
 OP_0

(wherein R_1 represents a trimethylsilyl group or a triethylsilyl group; and R_3 represents an alkyl group having 1 to 10 carbon atoms or a cycloalkyl group having 3 to 10 carbon atoms).

- 12. (Original) The compound according to Claim 11, wherein R_3 is a tert-butyl group.
- 13. (Original) The compound according to Claim 11 or 12, wherein R_1 is a trimethylsilyl group.
 - 14. (Currently Amended) A compound represented by general formula (4):

(wherein R_3 represents an alkyl group having 1 to 10 carbon atoms or a cycloalkyl group having 3 to 10 carbon atoms).

15. (Original) The compound according to Claim 14, wherein R_3 is a tert-butyl group.

(In the formulae, R_1 represents a trimethylsilyl group or a triethylsilyl group; R_2 represents an aryl group or a heteroaryl group; R_2 represents an aryl group or a heteroaryl group; R_3 represents an alkyl group having 1 to 10 carbon atoms or a cycloalkyl group having 3 to 10 carbon atoms; and X represents a halogen atom.)